

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A sensing apparatus comprising:

a cable having a first end, and a second end and a core, wherein the core extends from the first end of the cable to the second end of the cable;
a connector residing at the first end of the cable; and
a sensor module residing at the second end of the cable; and
a conductive element extending from the connector to the sensor module, the conductive element being helically wrapped around at least a substantial length of the core.

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2. (Original) A sensing apparatus according to Claim 1, wherein the cable, the connector and the sensor module are unidiametrical; and wherein the diameter of the connector is no greater than the diameter of the cable and sensor module.

3. (Currently Amended) A sensing apparatus according to Claim 1, wherein the cable comprises:

a core;
a conductive element wrapped around the core; and
a first tubing covering the core and the conductive element.

4. (Original) A sensing apparatus according to Claim 3, wherein the core is polyester.

5. (Original) A sensing apparatus according to Claim 3, wherein the conductive element is a ribbon cable.

6. (Original) A sensing apparatus according to Claim 3, wherein the conductive element includes wires.

7. (Original) A sensing apparatus according to Claim 6, wherein the wires are welded to the connector and the sensor module.

8. (Original) A sensing apparatus according to Claim 6, wherein the wires are crimped to the connector.

9. (Original) A sensing apparatus according to Claim 6, wherein the wires are platinum.

10. (Original) A sensing apparatus according to Claim 3, wherein the first tubing is radio opaque.

11. (Original) A sensing apparatus according to Claim 3, further comprising a second tubing covering the first tubing.

12. (Original) A sensing apparatus according to Claim 11, wherein a window is cut into the second tubing.

13. (Original) A sensing apparatus according to Claim 1, wherein the sensor module comprises a first end and a second end.

14. (Original) A sensing apparatus according to Claim 13, wherein beads encapsulate the first end and the second end.

15. (Original) A sensing apparatus according to Claim 14, wherein the sensor module further comprises a spacing element.

16. (Original) A sensing apparatus according to Claim 15, wherein a height of the spacing element is greater than a height of the beads.

17. (Original) A sensing apparatus according to Claim 1, further comprising an enzyme within the sensor module.

18. (Original) A sensing apparatus according to Claim 17, wherein the enzyme is glucose oxidase.

19. (Original) A sensing apparatus according to Claim 17, wherein the enzyme is human serum albumin.

20. (Original) A sensing apparatus according to Claim 17, wherein the enzyme is a protein matrix.

21. (Original) A method of making a sensing apparatus comprising
obtaining a connector;
obtaining a cable, wherein the cable comprises a core;
obtaining a sensor module;
attaching a first end of the cable to the connector; and
attaching a second end of the cable to the sensor module;
extending a conductive element from the connector to the sensor module; and
helically wrapping the conductive element around a substantial length of the core.

22. (Currently Amended) A method according to Claim 21, ~~further comprising of~~
making a sensing apparatus comprising:

obtaining a connector;
obtaining a cable;
obtaining a sensor module;
attaching a first end of the cable to the connector; and
attaching a second end of the cable to the sensor module;
forming beads over ends of the sensor module;
inserting a spacing element between the beads;
covering the sensor module with a tubing of the cable;
cutting a window in the tubing of the cable; and
inserting an enzyme in the sensor module.

23. (Original) A method according to Claim 22, wherein the enzyme is hydrated.

A | 24. (New) A sensing apparatus according to Claim 15, wherein the spacing element resides between the beads.

25. (New) A sensing apparatus according to Claim 14, wherein the sensor module further comprises a spacing element, wherein the spacing element resides between the beads.

26. (New) A sensing apparatus according to Claim 1, wherein the core is made from shock absorptive material.

27. (New) A sensing apparatus according to Claim 26, wherein the shock absorptive material is selected from the following group: Kevlar®, Dacron® and polyester.

28. (New) A sensing apparatus according to Claim 1, wherein the at least a substantial length of the core is the entire length of the core.

29. (New) A sensing apparatus according to Claim 1, wherein the sensor module further comprises a spacing element.

30. (New) A sensing apparatus according to Claim 29, wherein the spacing element comprises a first spacing element and a second spacing element, the first spacing element being configured to couple with the second spacing element, wherein the second spacing element is removable to leave a space in the first spacing element for receiving a sensing catalyst.

31. (New) A sensing apparatus according to Claim 30, wherein the first spacing element comprises a floor, the floor of the first spacing element being configured to allow the passage of oxygen.

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32. (New) A sensing apparatus according to Claim 1, wherein the sensor module further comprises a first spacing element and a second spacing element, the first spacing element being configured to couple with the second spacing element; and wherein the first spacing element comprises a floor, the floor of the first spacing element being configured to allow the passage of oxygen.

33. (New) A sensing apparatus according to Claim 32, wherein the second spacing element is removable to leave a space in the first spacing element for receiving a sensing catalyst.